

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN INTERSECTION CONTROL BEACON AT THE INTERSECTION OF MD 4 (SOUTHERN MARYLAND BLVD) AND CHANEY ROAD IN CALVERT COUNTY. A TWIN MAST ARM STRUCTURE AND A SINGLE MAST ARM STRUCTURE ARE PROPOSED IN BOTH MEDIANS. STREET LIGHTING WILL BE INSTALLED ON THE PROPOSED SIGNAL POLES. MD 4 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN FLASHING MODE WITH FLASHING YELLOW ON MD 4 AND FLASHING RED ON CHANEY ROAD.

CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSES IN A ~~NEMA SIZE '6' BASE MOUNTED CABINET~~ NEMA SIZE '5' POLE MOUNTED CABINET.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #5 / OOTS:

District #5

Ms. Kimberly Tran
Assistant District Engineer - Traffic
Phone: 410-841-1019

Mr. Mike Huber
District Utility Engineer
Phone: 410-841-1039

Mr. John S. Mays
Assistant District Engineer - Maintenance
Phone: 410-841-1013

Mr. James Folden
Assistant District Engineer - Construction
Phone: 410-841-1031

Office Of Traffic & Safety

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

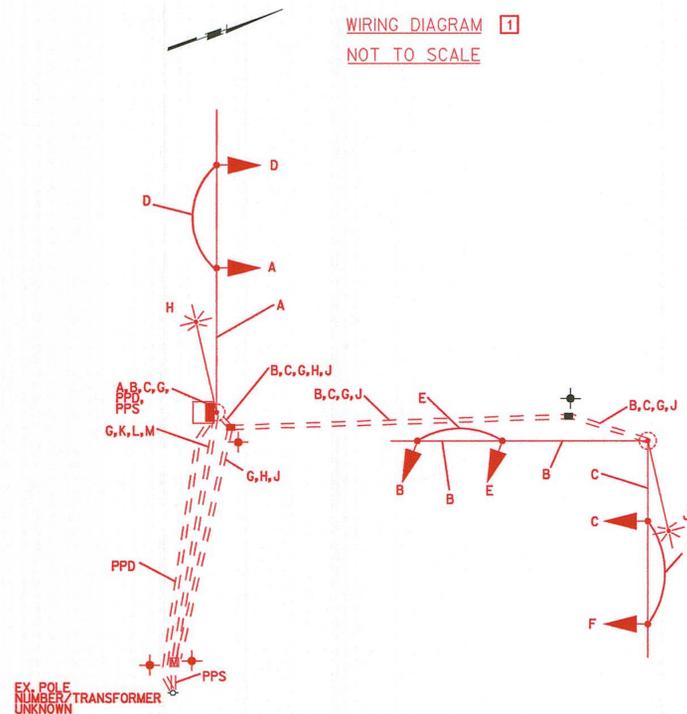
Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Team Leader Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

The Power Company Representative Is:
SMECO
901 Dorcas Beach Road
P.O. Box 37
Prince Frederick, Maryland
Phone: 410-535-4400

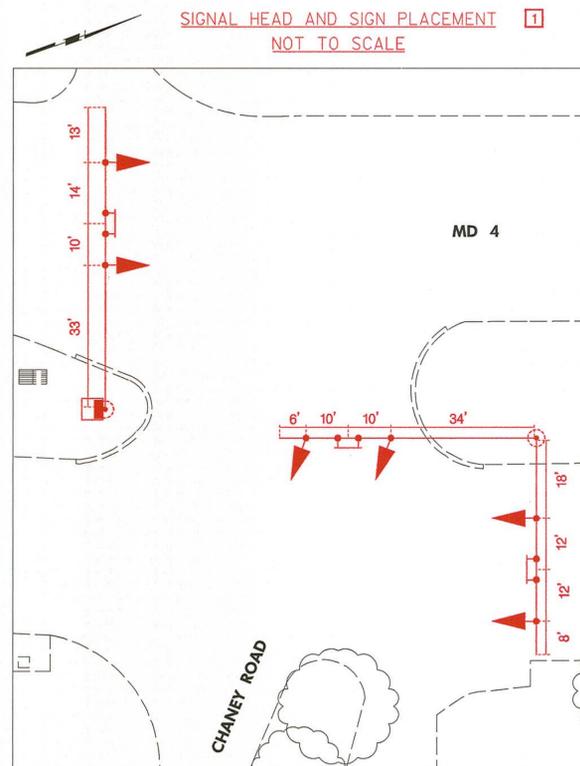
WIRING DIAGRAM 1
NOT TO SCALE



- A, B, C - ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
- D, E, F - ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- G - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- H, J - ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC
- K, L, M - ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN

- PPS - PROPOSED POWER SERVICE (ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG - THHN/THWN 3 RUNS WITH 3-30' COILS OF SLACK CABLE AT UTILITY POLE. FINAL SERVICE CONNECTIONS SHALL BE MADE BY SMECO)
- PPD - PROPOSED PHONE DROP TO BE INSTALLED BY OTHERS
- GRD - PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

SIGNAL HEAD AND SIGN PLACEMENT 1
NOT TO SCALE



PHASE CHART	1	2	3	4	5	6
	(Y)	(Y)	(Y)	(Y)	(R)	(R)
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
1 9043	1 EA	[UPDATED] CONTROLLER CABINET, SIZE 5
1 9044	1 EA	[UPDATED] CONTROLLER CABINET, SIZE 6
9570	24 SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN: 1 EACH - R6-IL (36 IN. X 12 IN.) 1 EACH - R1-2 (36 IN. X 36 IN.) 1 EACH - R6-IR (36 IN. X 12 IN.) 1 EACH - R1-1 (36 IN. X 36 IN.)
9571	49 SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN: 2 EACH - D-3(1) (96 IN. X 16 IN.) 1 EACH - M1-5(3) (108 IN. X 36 IN.) 'SOUTH, ADVANCED LEFT ARROW, 4, NORTH, RIGHT ARROW'

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1003	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	3 CY	TEST PIT EXCAVATION
5002	40 LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5005	20 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
1 6002	25 SF	5 INCH CONCRETE SIDEWALK
8001	6 EA	12 INCH LED SIGNAL HEAD SECTION
8007	2 EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE
8012	1 EA	EMBEDDED METERED SERVICE PEDESTAL
8021	1 EA	MAST ARM POLE & 70' MAST ARM ANY 'T' DIMENSION
8024	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8027	1 EA	TWIN MAST ARM POLE & 50'/70' MAST ARMS ANY 'T' DIMENSION
1 8034	240 200 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
1 8036	45 75 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8037	36 LF	WOOD SIGN SUPPORTS UP TO 4' X 6'
8038	73 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8040	275 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
1 8043	340 150 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
1 8044	2 3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8049	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8053	75 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
1 8054	460 750 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
1 8055	350 400 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
1 8060	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
1 8061	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE		ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

REDLINE REVISION NO. 1 FEBRUARY 2012

 TEDD, APPROVAL SHA NO. XX3535168

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 4 (SOUTHERN MARYLAND BLVD) AT CHANEY ROAD
 DUNKIRK, MD

GENERAL INFORMATION SHEET

SCALE 1" = 20'	ADVERTISED DATE 03/2011	CONTRACT NO. XX3535168
DESIGNED BY KKT	COUNTY CALVERT	
DRAWN BY KKT	LOGMILE 04000435.72	
CHECKED BY SDY	TMS NO. K087	
F.A.P. NO.	TOD NO.	
TS NO. 4785	DRAWING SG-02 OF 02	SHEET NO. 02 OF 02

PLOTTED: Tuesday, February 28, 2012 AT 08:28 AM
 FILE: I:\PROJECTS\4014266\4014266_0101\Drawings\TRA\p86-N000_MD4_FL1.dgn

BY: tamovk -

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